

## Bovine Serum Albumin (BSA), sulfo-Cyanine7.5 conjugate

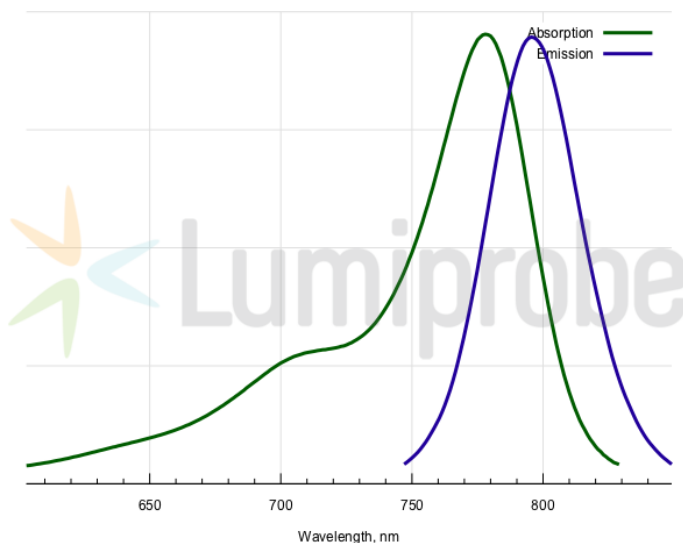
<http://hk.lumiprobe.com/p/sulfo-cy75-bsa>

This product is a ready-to-use fluorescent conjugate of Bovine Serum Albumin (BSA) with sulfo-Cyanine7.5, a bright, photostable dye emitting in the near-infrared (NIR) region. Its spectral purity and hydrophilicity make it suitable for both *in vivo* and *in vitro* studies in cell biology, neurobiology, immunology, and pharmacokinetics. It can be utilized to track endocytosis and intracellular transport, investigate the permeability of cellular barriers, analyze cerebrospinal fluid (CSF) dynamics and glymphatic system function, and validate targeted drug delivery systems—including the real-time assessment of their biodistribution.

Its precisely defined Degree of Labeling (DOL) enables the use of sulfo-Cyanine7.5 BSA as a reference standard for calibrating fluorescence intensity and monitoring photobleaching across a wide spectrum of techniques—ranging from super-resolution fluorescence microscopy to flow cytometry and optical tomography.

sulfo-Cyanine7.5 is structurally similar to Indocyanine Green (ICG) but has a higher fluorescence quantum yield. Its excitation and emission maxima match the tissue transparency window (700–900 nm), enabling deep signal penetration, minimal tissue autofluorescence, and a high signal-to-noise ratio for visualizing internal structures and processes. The dye resists photodegradation, allowing prolonged time-lapse imaging without signal loss. Fluorescence remains stable over pH 4–10, supporting a consistent signal across varied cellular environments.

The conjugate is supplied as a lyophilized powder that rapidly reconstitutes in aqueous buffer solutions to the desired concentration. The product is fully ready for use immediately upon dissolution and requires no labor-intensive purification to remove unbound dye or aggregates.



外观:

溶解度: 水

质量控制: 分光光度法

储存条件: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試，且未經明示或暗示授權用於其他任何用途，包括但不限於體外診斷、人類或動物用途，以及商業用途。

激发/吸收极大值, 纳米: 778

$\epsilon$ , 摩尔吸光系数,  $\text{cm}^{-1}$ : 222000

发射极大值, 纳米: 797

荧光量子产率: 0.21

$\text{CF}_{260}$ : 0.09

CF<sub>280</sub>:

0.09